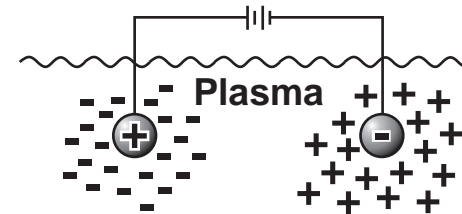


Plasmas usually exhibit these properties:



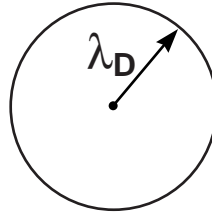
1. Plasma shielding lengths of electric potentials usually are small when compared to plasma physical lengths

$$\lambda_D \ll L$$



2. Number of particles within a $\frac{4}{3} \pi \lambda_D^3$ sphere usually are “statisically” large

$$N_D \gg 1$$



$r = \lambda_D \rightarrow$ Debye sphere
where $\phi(r) = \phi_0 e^{-1}$

3. Mean time between collisions usually are long when compared to typical plasma oscillations

$$\tau \gg 2\pi/\omega$$

